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LIST OF SMILES		
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Incide Actd Sectors	dvetian Otores	
Permentation Contro	Dryanters	

Compersion of Methods for Identifying ASCO Streams of

Menisoring of Pa	rmantal Long		
Investment the	mentation (mitering	
SUPLIFIE AND DESCRIPTION	100W		
Cultivation of E			
Porty Acid Analy			
#Ibotyping			
Analysis of Inde			
RESERVE FAI	mentatatios.		
STREAM AND CONCUS	TD65		11
Streen Typing :			
Data Analysis Bucchiral Sinces	My		14
LEST OF REPRESENTED			24
APPORTE			- 14

.....

	Media for exitaring lactic and bacteria	2
2	Ricchesized sources for Yunlay lacets word within	×
3	Dallabase day the Hooley Lectic sold becteris: :	70
4)	Detainmen for the Hill facty acad spalyers	
5	Song core preservation media	- 50
	APCC Siddens need in this yearson	1
	Earterial lambates obtained from industry	
	APT agas	4
2	MCD (DeMan, Regions, Sharpe) again	-
10	Newst malt extract agar (MM)	
	Besege formula	71
	Description of the ADCC strains	.11
177	Flating modia competions political assumences	
14	Comparison of plantes media. Final comparison of	
530	ATCC strains sented by Stolog	24
54	Cornect responses for Blodog administrations of ANCC especies.	

18	Correct identifications by MSS using ATCC strains	51
1.9	AVOI strains tested on the Ribogrinter	1.04

 ATOC SCREEN TO RESOURCE INSULTANTIAN S

Ligano		m
	Briden Reported Pathway	
2	Description Pethody	
	Putty soid structures	41
61	Propert flow for Ending evelyons	4
	Precess flow for fetty seld analysis	41
	Process flow for Hibspeleter	
	Modium Green possitive mode - A America	
	Long thin Gree positive rods it ment .	
	Strick tree positive rode - 5 pleaterus	01
11	Small from positive rods - L- redification -	64
	Small Gram pomitive cocci - P meldilectici : :-	100
33	brequier dess positive coost a cutsway	
13	Deall from positive money on change -	
	Comparison of plating media: Initial accounting of ATVV attack by 0.0 pm = measurements of cell	
	density	

k	Downshaung of pel verses nermal leading for Lactuatedline plantarum	
	Restoracy phere culture patterns of Laureham	
18	Incomplete dignetice of 5. neylowarsa vanua complete dignetics	
1.9	Merching petterns for A. alienterine	
20	Computer generated image of gol with anaples	
23	Forlog revalts for Leaconcetan app.	
23	MIDI SKEY and sending for Learning on a part of	
22	Miletyping results for Americanian app	
24	Nieleg remits for Pelisosopus app	
15	Milti fatty sold remits for Antoroccus app	
28	Siboprister ribergying results for Pedinonnum	
	Finley results for Larnobectline app	į
73	Patty and reside for decommending app	,
29-	Aubotyping results for Earthhoryllus app	1
20	Delry testate many and 5 cents	
20	Results of Biolog analysis for all strains :	3
1.2	Results of futty acid analysis for all strains	2
33	Abbotyping seasing fee all attains	
34	Sibolype peakerns of cruops juice strains	

71	λ plantame, λ parameteristic and both from MNS again	ı
36	5. Means and 5. Make from MES ages	
37	Dedried broth ribetypes	
58	Normal Flora of ground leaf	
3.9	Missobial flora of essemps after 20 hours of fermentation	
42	Albotype pesterns of manage ferentiation	
63.	New college sicrofisms.	1
42	Cobbugs after 3 days formestation	į,
43	Ensethings derventation from 0 time to 4 weeks .	

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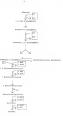
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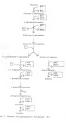
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and labeling to the rev promote, to option three slicesly those emphisions which coemitable to scheduling becomes and product formation, and to establish conditions with are option; for the greek of scientive cultures. This knowledge when properly applied should offer a formations which can be controlled as desired (20:279).

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Percentations generally socials stand populations of

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process of the case of the letter gold backwis, their

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CHEROSTALIAN CONTROL

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Traditionally, numed atrain starter cultures have been used on a rotation basis to avend phage infection and militain a healthy starter population to ensisted the enterous of feromaterison other heading of sized atrains are as fittings: satisfies may be less affected by changes it you executed supportions a lower Danish level is sended as sended are consistent of the control of th

ECO-masses are not-constant statistical systems then as been developed for claimlant was regard two the approximation of the claimlant was regard two the approximation of the behalf as these development continuous, they may be expended for two in continuous mentalization of favorablements of COUNTRY, Claim applicationable on the continuous as between the collection of the continuous and the

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and those post in the classes there is no surrear
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rescool and invintion of the horterial peaces. This is famour filocolister 'es was used which applies the Euchi capture system. The DM pattern is compared to a database incoming to determine the relatedness of the species. The isays of THM Linjergresh, see he stored in the ditabase as compared to frozer includes or to large painterms is a recognition linkey (10). The detection for the dispurious contilled patheres for Schoolly, Lintenia, I said, and Supplymenous It follows to achieve to deschare for the letting cold particular recognition.

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stroduction to the Research

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Redressed Artes

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oderalfication of the Industrial implates was performed mentg adoptions and treditional methods of basic biombenical touco

The station were stood for long-term preservation as 80^{1}C in posservation bands we shown in 7500s 5

Table 5 Long term preverweline redin

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Sectional Physical section (2004))	2242
terrober(() for approximate (19826)	1941
Lerenbergiller exchette (18040)	7947
Lerndon) 10 M/Minusters	7344
Servebonière bronde (\$1990)	1553
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i despetiturate de COMMUNICIONES	
decisionallies curatus (\$500)	7904
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tertebetiffur date (1882)	1279
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Pethopiccus sitellander (8160)	127
Pedistroccus demana (2006)	1201
Pedioceccus districtions (10047)	1277
Perfection Processing (2022)	752
helicoccus scannegal (2002)	
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the pure were proposed, and the hercerist programming we shade to the nations under a stellar plants and spread using a stellar plants and spread using a sterile plane boding stall. Flow planes were indoctant for each cognition. All plants were indoctant for each cognition. All plants were indoctant accordantly and for 33 a CD, incubstor Country were not strapped has in the recriment to harvest the cults for the sheer

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TABLE I APT ager	011
Ingredices	Amount page litter
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Parameter digest of custo	18 9 9
SLoonae SLoonae	16.0 g
Seast excess	7.50 g
NeCl.	1.0 g
2,000,	5 5 9
Sodium cativate	5.6.9
Ne ₂ (1) ₃	1.20 g
9601,465,0	9.14 g
My10,176,0	0.04 g

la S. Hill (Sellan, Rogers, Sharps) agar (16)

Xegrediest	Anoust per liter
CCurrons	14-51 g
Pepcona	10.0 g
Rose	18-0 g
Bird astroct	119
Sodian NEWEWIA-23,6	1.0 9
Tant extract	4.6 g
8,820,	2.0 g
Triamenous Chirola	2.0 %
March 17040	0.20 g
MySO, MSG, D	0.00 g
BESTATES	1.0 (0.0

The pill in adjusted to d.2 g d 2 et 35'

Table 10. Ness male surrour year 1961 (co.)

Ikpredices	Assunt per liter
Ages	20.0 g
Guerous	10 0 9
Agen	10.0 g
Popcose	5.0 0
Yeart extract	100
MAGE extract.	110

THE RES PER SECTION AND ADDRESS NO. INC.

MAI Ager involved enteriorally was deemed to be the best all-purpose ager, therefore MMS ager (Doold Lot a 1199937) was used for the contribute of the experiments

Riskon Rethod of Santarial Identification

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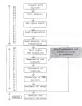


Figure 4. Provises flow for Autope-

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experts expense. The dilliums were grown in the books of 19°C for 24 leaves would could. Table 11 liess the

Ingredient	Amount (g)
Ground level	228
dale	42
Drakerose	40
MWC4G	20
Pepper/spices	1.3
Bedoug storace	

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ASSEZIACIÓN. PediOCOCCO punismo un laccióncillos púntamis. Day unes inecedand el a luval of 12º unpassace/gram of most. The avasager wars (occupated at 13º0 implies of the exempt wars token avazy it hears and mainted for the meriod as descouled above and the con-

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Table 12 reports the visual apparatuses of the ACC strake. Best collect was visited and the morphology recorded. All the exitores was then perfitted and cocklass sequelow. Frost molitones maximal wall and alone seasily absolution to Sizes portion. How exitores greater than 12 hower plot appared Janu versions.

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Dente - Middle Gran positive rode - 5 boosts (CLID



Pagere 8 Long than Gram posttive rods - 2 smeet CLL | 11 (xc) (xc)



Figure 2 Table Grier prelitave rode - 5: pleasurum (ASCC 0014) (villa)



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Figure 11 deall draw positive coots - F anndalastics



WIRE DOINGS



rigine 13 Bmall draw positive excel in chalms -5 reconstruides 1870; 18200 181001

The vending of the sanital addressing of the five posting media are about in Table 13. Results are reported as the upical density at 50st on of the postub therested from the different platting which. These results are nime above graphically in Papers 18 (the total of the upical above graphically in Papers 18 (the total of the upical above graphically in Papers 18 (the total of the upical products).

from deNess, Rogons and Sharpe (MSS) and Rinling Lewise Read

	Finalist world to to de fee on the								
MICO Florale	10.0	THE.	HiA	A21+1	APT-W				
DECK MAZIAMBION C	110				2.5				
SHIPS LAUGUE									

Option (density performed on a suspension of wells weather from each plating medium AFT again with 2% frontees (AFT-5) or 2% Sucrose (AFT-s)



ACC Strains by 0 0 us mentioned a of cell density

The remails are numerical to Table 14 and 270 graph in Figure 15. The results are reported, aquat, as optical density et 550 mm and the total growth from such of the tw express provided values for each different planting medium

Twole 14, Comparison of plating modia; First comparison of

MRCC Phresis.		2.2	B	**	i.	ū.	*	PF-1	r.	10-1
A. Jorena 20180	-	1	-	٠	٠			4	٠	
F mildimension 33354										
Process 2.0 analysis										

[&]quot;Optical density performed on a empension of colle washed

from each plating medium



Pugger 18 Final plating media comparison by 6 D $_{\rm DH\ m}$ - consummation of cell density

One water, was oper product the passaces lead to exclude quantity between flower's bearing programs have been described the product of the control of the co

Rising

The performance of the different (mentionism) therebyone was relationed using ATCC versions of severan that ATC lotted in the distribute of the antivolved test. Prolimitors of all stratum as earn test were and persible due to the validations of the expenditure and shear applicability to each test. An extense with its vertices as were as greatly for removaling countries.

the performance of the Scaleg test. These are ASSC STRAIN

Table 15, MISS acceles report by Buston.

5. Intel or characters i. presidententeraldes

^{*} Two difference arry arrange of these provides are methods

and are only those species that the Sibley woundestween claim can be identified by their test. Table 16 groundes the paramet of extrect component for those organisms bested

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Table 16 Correct responses for Fuelog (descriptorizate of FFCC stocks E Stranse (Dects LG Species of Sphenoties LA

⁵⁾ total suspice

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The Hooley procedure was easily emercials more groups on saint planner motion was obscured. Brazile are calculate

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Table 73 feet the SCHIBLTHS were used to emblast the ScHIBLTH SCHIBLTHS of prepared that saw Edits paid schiptis as a sense of the Schittling the separame Applit. these were 8000 SCHIBLTHIS the species that the MID sensifications as a sense only the species that the MID sensifications as a sense of the Schittling by where ever Table 15 presides the prizent at coveren proposes for those sequences to cold.

The results show that 32 stanton (TS 39) were incorrectly identified; meeting that the FETS derived designation was not like first obtain when using the FEDS system of the 52 status that were incorrect, 21 (394) of

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Continuities of the Contin

* Streets is bold were tasked by all identification embed The number is passeshears indicates if were thus one ATO STREET was instead for that apacies

despise Green 64 Species at Scheperius of 18" 22 th 25 Th 25 Th 2004*

^{* 28} total employ * One stress was designated to enhapseter and was conventy

the strong was ourselfy identified to the genus only the Microssial (henefitentics pyters was usuate to steerify) GIPS exercise and produced a "me mean" result for them. Deterencingly, in the same of the hendonicson quoties, Deterencing was the produced of the produced

for the other methods (ide). Because it insuless, fores, a are original. Now were strains of lastic seld bacteria.

One report discussing the two of fatty send enalysis of the identification of Hisphylmononi noted that apecias I these organisms could be distinguished only by the sen of dimitre Aniquia II Can Adhiyaka of ann fermenting force in imperime materies, questiencium satipute of Can Entry mode was used on an indictional actual fine species disferenciacion and it some Canas as a manded for reviews determination IIII Eminately, questientes data was used to queste Calumna sterilar of Procedomotic Squarie for oppoint(Copian) accompany.

species level and, in addition, the profile "saidon assessment entit trys Coul and a lower growth rate. These authors

Leads a moder of relativestom conditions on two gapsas of lective and determin, becommodities each and destinability politicus. Describing of two found of Eucharan the systematic political control (opt $G_{\alpha\beta}$) and increased as in concentration increased whe resix of extracted to unanimosed each politic this approximate the theory than the each operational descript developments may effect the

results of other methods. They sid contrade, however, than clinically preference, species such as SupplyIncorpus and

way on to indexed. He weeked of determination by furth profits also are a sequence to the transmission of the profits of the profits and the sequence of polyphase industributions of themse with full contribution in the profits of t

The performens of the holospecial was based on the support of STD circum, he is the st the st the same and complete for the st the st the same and considered for the large support of the same and considered for the same and support of the same and the

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Sectionalities delleroschill	Secrobaciliae Fermanny	
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Leaconourous siteurs	Laurencetes magazteroldes (1)*	
- geroformentersider		

The number on perceptages indicates at it more than one ACCC Stream was torted for their species

Table 23. Correct response for Enbayelater identification of ECCC strains

6 Statum	Genue Lis	Species 14	debeporter to
43"	12 43	24.43	72.52

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Protest that affected the results of the triographing semi-sid overfacing of the gel. Overfacing sessions as the presence of many bunds that were not mean wish optimal CONlivels. These excess basis sensions in the creation of a new percent group stakes that he had identified excreenly that highlighest a ventures in the computer analysis of the highlighest a ventures in the computer analysis of preterms. Specific inside are not required exceeding to greate and species, observer, an exceptions contained indicate that have alight protect differentiate, but are clearly the name upone to the posterior of the first protection of the prote

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Figure 16 Overdowing of gel (tog) werens seemed loading for



Pagers [7] Scattering place outcare pathenes (from top to bollos) of lacinomicallies earlies recent log place 164 counts are Pediatronics perconaces various log shear



Pigues 14 Incomplete disposition (top) of D anylorocus

Figure 18 gives on sample of mentility patterns to illustrate the repetitability of the test. Figure 20 shows the toopstay generated image of the ps1. This allows the semandar on measure the bands applied the solutional wayne exchange of company that strainly if measurary.

Duting matchi reportances bytes of the lectic still delimited was concepted. It was found that the admits of N-corryformscales fastitated the byte [53] disce this masson species has been sided to the protocol to without the performance of these members by along us the precognisation of the DM. (10)





Figure 21 Computer generated image of gal with analyse 1927, MLA, 1979, size 1922, 1279, 1979, 1979, semple lance 1 8 Controls are rep to the fit

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Figure 21. Making results for becommand as



Figure 31. Mary framework complex to a comment



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Figure 7.3 and 50 provide Character Character for the analysis of the Securition Servers. We reside natural form that soluble is now mixture for these separates. Possposed trade was given through. A sink a sink-morration of a personal critical content analysis with the 1000 and a personal critical content analysis with the 1000 and a personal critical content and the content of 1000 and a personal critical content and the content of 1000 and a personal content of 1000 and 1





Figure 20 Facty and results for Associateallas spp



Academic of Indonesial Schools

move it shows the results from the creditional century dept. In most cases, prejummenty identifications of the relational Section. Table 33 shows the results of the industrial civils inclaims using the three methods of

In 1986, It if we retire to brief an parameter, the three designation retains the organism credit to program the processor and including a mount the organism credit part in the processor and including a street of the same and on the same time of the same and the same an

Net all inclaims were conted by the Microbual Identification of the MIDI that the performance of the MIDI had not been optimal with the ATCI strains, a decision was under to set you all the industrial strains by this method

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Figure to Dairy seclate EMSM (Rept and 5- conef (botton

Figures 31, 30, and 31 yourses the descriptions for the industrial mengins in colotics to the MYCS etemins for the Booles, fasty moid analysis, and tilotyping, respectively Samples in hold indicate those amplies tweeted by will three

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Pagere 3: Despite of Ricley analysis for all str





Figure 31--contiana





Figure 12. Results of Datty and analysis for all contin-



Figure 32 consisted



Pipers 33 Albotyping results for all stream







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quar 14 Abbrige patterns of course yaze strains the pattern at the top is the wormage of all patterns tested and is stored in the database. The "No minor" indicates that the amples did not notich the database governed from ADC strains.

The fastly each nethod of manipule also provides the potential for direct monitoring. Onliners in a broth can be contributed and the policy used for fatty said extention.

The first sings in properting to hondour the formentations were to test the Albegrinner to determine whether mised calcieves could be distinguished as distance patterns and to determine optical call density levels for performing the rabotyping procedure from a liquid work

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The next challengs was to describe when to become colls from a least enters and the current date for the pal forbids) importances were consecuted. The portions were presented on the ORA was demped. Figure 37 shows the pal remote for com experience. Leaves 1 2, and 2 are all from solids make. Seeing 3, 6; and 6 are 70 are all from solids make. Seeing 3, 6; and 6 are 70 mm beach make the solids make. Seeing 3, 6; and 6 are 70 mm beach make the solids make. Seeing 3, 6; and 6 are 70 mm beach make the solids make. Seeing 3, 6; and 6 are 70 mm beach make the solids make. Seeing 3, 6; and 6 are 70 mm beach make the solids make. Seeing 3, 6; and 6 are 70 mm beach make the solids make. Seeing 3, 6; and 6 are 70 mm beach make the solids make seeing 3, 6; and 6 are 70 mm beach make the solids make seeing 3, 6; and 6 are 70 mm beach make the solids make seeing 3, 6; and 6 are 70 mm beach make the solids make seeing 3, 6; and 6 are 70 mm beach make the solids make seeing 3, 6; and 6 are 70 mm beach make the solids make seeing 4.5 mm beach make the solids make seeing 3, 6; and 6 are 70 mm beach make the solids make seeing 4.5 mm beach make the solids make the solids make the solids make the solid make s



Figure 35 5 pleature (top), 5 parameteroides (middle and both (bottoe) from MOR again



Figure 21 & cases and L anke from Mil ay



The use of Filtriers on the enemys deductry enhances the endry of the product O_14.731. Stonages Insociation VOIC ENGINE additions took to be those pl vidual than nonseases, or enterthly formetical, ensuages INI.. The production of lamine said venture the growth of granemptives benefits and of the level of stations values used.

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pacified was pure mitter of the skinere worker it boom of the including of the skinere worker it boom at the including of the fermention. Figure 30 shows a few stans of the symmothetal lend and Figure 37 shows the lend after 30 books of fermentation with admissive Pediamocom



Figure 18 Nevert Circu of present best - Spon steam Once.



Anguse 10. Account flore of everage efter 19 booms

pentrement. It is apparent that the statter obtains have outgrown the account first greater in the best finitially. The pld drupped in it is that the period as well, and/orthing the proved of the lancit said backers and the problemin of each. Other exempedors report the same time

These results can be seen from the relocypousy reaction as well. Figure 42 slower vibelype patterns of the rew local, essence culture and the schwape of 16 and 20 hours. The change we the fleen seen be seen as the exercise culture.

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Figure 60 Bibliograp pulsaria of manage ferrestation. The patterns free top to bottom district comlity little instructional Best manage 150% after 16 Double of Sermonystom, manage 61 provided the opportunity for when computeme to grow and thinguish the first of the forementures as the instead of senertree, the and product was notice admage "pinally four separate fermissations were instituted from each based of coblege and office sempling, the pursues was distantanted moves! (News of the cobbage was much lower than that o

Figure 41 show the onbloop floox prior on fireculation. The pulsars resolving from the attending on contributing step were small and all the solits were used for principles of the pulsars and the pulsars and the pulsars and proposition. Although the solitons was mated, there was more becomed anythy ownill. That is reliance to the contribution of the pulsars and the pulsars

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Figure 41 above the valoryping results of the Wilderford 41 2 kine and week 1 through week 4. Thus upper local was considered a screen because the cultures do



Figure 11 New cubbage of coolings them state (\$150)



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- Neces, J H and M L brown 1981 Dee of microbial
- 7 Baloga, A. G. and S. X. Herlander 1991. Comparison of nechods for discrimination between minains of listaria soccopiogenes from apidemiological mirroge. Appl. Eco. Marchael. 51 1214 2232.
- Food Technol solice to be

Brains, J. P. A Gabbs and R. H. Blood 1983 hastle said benores: Their role 10 food persarveisies—A literature study. Brillia Nood Hassalsetering Industria Hassacoth Assoc, Lass. 2344-2024.

 Berger, E. A. 1990. Lack of precision in communical identification proteins. Currentless using Paperlan energy in J. Appl. Packetini. Ed. 205 248
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 Resident C. Appl. Packetini.

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Monther, 35 2013-2015

13 Sottyper, S. C. 1806 Approaches for Identification of

Mondatch, B. H., D. O. Albrught, J. G. Millians and H. J. Scott. 1811 Die of residenty suplified polymorphic IRA maybers in constnation successes attacked

Martinda an Despect 234/234 321

Breads, P and R P Floring 1995 Identification of lecture accol benefits by Chicogong Mater Acco. Materials.

16 Brenner, M. E. Millemenl, M. C. Johnson and B. Ray 1946. Oklobar Simmaps in dried Lastinhardilam stimphilam. J. Proc. Process. 45 47-53

17 Regress, O. J. R. Schnodt, E. L. Seich and J. V. Charbers. Link Evaluation of sensor manage management of the companion than the control of the companion states culture. J. Fund Propert. 43 243–241.

Onchoo V P. G P Manifest and h D Manifest 1823 Software tweet and databases for hecterial systematic P. Chodell, A. W., S. H. (c)+, M. D. Costy, T. H. Banksugh, J. D. Norden, F. L. Kilopes and K. H. Magnetzra. IFM. Bookins characteristics and LOCKLICALISM of Labour end becars tain the Allopauser — Moreobach Characteristics

Market Acres Heet Am Sec Hickains, Scille,

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Lattic Acid Markets on Decrement and World Markets.

27 COCCAR, L. M., A. M. Bodergowe H. E. Purrandaz, E. Siwicas C. F. Hen, P. D. Secretardaz and E. Socilated includes and characterization of pedicera file, new hototricolo from Padameness ariffilected with a Econd LinkLassiv generation Appl. Nov. MICCOLO.

27 Charlesbois, S 5. 1976. The seelers extence of

D Sele, I C and I T Sabell 1971 larreboril

24 Deingerd A. F. Ephthervan, J. L. Lersen R. Sixwille, D. Bouchastologo and B. N. Mass. 1890 Application of rehetyping for differentiabling Takens obbieres NO-01 include Even abring forms 12

25 Daly, C., M. E. Sendage and P. E. Elliser 1972 Interactions of food Starter unlivers and food-booms perhapsia: Jimphonessas Microellecton versus food Delicents of Multi-Proof Perhaps in the August Cond.

28 Daly, C. S. Sathabos, W. Z. Sandone and F. S. Elliber 1979 Collect of disaphylecoccus scown in missage by states evolvers and chemical mindulation J. Food Sci. 18 426 428

- OCCUMENTING IN CITIALWRIP ADJANCAGE (50-) ELECTROPHER PROPRIES SECTION OF THE AUGUST OF LECTROPHER PROPRIES SECTION AND AUGUST OF THE AUGUST OF J. MILLIAN 1895 Reventorance Sea cochoology for J. MILLIAN 1895 Reventorance Sea cochoology for
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- 20 Decke, D. H. Z., H. Z. J. VastVourme and F. Bollagillo 1595 "Recology of Leuksmanton ego particulable", Descondance immes an revealed by Sometical Landgard of COCAS Solidad and J proceding patterns, DES home independent, and DBM-CDES Sylvandaration Ent. J. Syst. Sectorial 4(3):81-71.
- 21 21500 Laboratories 1504 E4200 Massel 1000 E411100 Delvent Michogen, pp. 1804 3805 3153-3123
- Deffine, F and K O'Connell 1998 Companyanger
- beterogenesty in anlays 2 Appl. Wasternal 18;) DUFFIGE Company 1999 DEARL Sparator: Finance 1 From 4s Security and Company Wilstonian Delianor
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Ittlembon, K. A. and C. A. Best. 1895. PARD-measured development of Lectrocores strain-specific succised as probes. Note: Acos Desc. Ba. Eds. Nicosaid. 1913 PROBLEM, L. L. E. W. C. Speks, M. D. Tatt., R. Mondero V. Tuttisens and V. Gellegila, 1932. Identifications on

th condel I M 1996 Computational stalysis of the apoliticity of 168 r888-defined alguature sequences for identifying food-related microsion. Feed Macrobial

Uses, J 1995 Report elementalogy testing hote and

41 Oliscon, E. H. Widrich, X. Dumosove, N. Casocoby and J. Deline 1999. Collider Datty mode analysis in the identification of Ladair erad becteris. Int. J. Prof. Microbiol. 2013.1339.

Persong 1395; Compacison of the Mising som must writens for Johnstillania and grave-negative confermations Whese- he doe Microbiol 18:196 Statem, M C and 5 D Karmon 1979 Biffore of selected Lances told benearis on growth of

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Dewlett Peckard 1885 Newlett Peckard gas chrosstograph deen wheet Match educion

44 Halers, R. 1996 Life calimated New Streetlet 2 or 45 Homoto, N. H. Hembiroto, S. Morata, M. Chiha and A. Homoni 1892 Aministryphocalty of malk enterpret with

Notice 1992 Artistropenously of milk entured w losine and becomin spanish is membyl 'spicition's marranguardize of Daley Sci 75:579-381

Holl. R. E., P. L. Comey and A. J. Brens 1955 Trubles or Breds-S Cow apparamenty. Food Austral 87 Nort, A 1972 Interactions of food starter outcurs and food-berns pathopsis. Chr satispastim believes Streptococcus Intell and apparaisoning elements. J. N. Food Technol. 38 414-422

48 | Reternational Communico ou Microbiological Specifications für Vacda 1800 <u>Parcobiol Scology of</u> Ecoda Volume I Academic Press, Inc. Sec 16490.

45 Jackson, S. E. H. A. Milichell and M. E. Wilson. 1994. Omportson of medicated and messal memple procuring of bockers. Now inheritation straight the Microbial Identification System Strip acid methys melon year chromotography. Acid. Mais. New No. 66 pp. 100.

Debendernt, V. (Schiell, S. Müdelic, C. Barbeliner, F. Debendernt, V. (Schiel, S. Lepholer, F. Vete, ed.)
 Forest: 1979 | Derestiphtons releved of the spodent;
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 Jay, J. M. 1984 Midden Eved Exerchiclogy. - yell ediction Nam Namerand Reinhood Company, New Nick, pp. 387-404

Josephin M C M I Colline and M b Mileger 1905 Generation of Lenisherillus hidoprins³⁰ Falleres Deing Durbuct's Assonated Milegolas Characteristates Not Abert Acon Nost An Day Milegolas 95 394

5 Hilbjür, F. H., h. P. Store, b. C. Chambder 7 of Stores A. K. Hodge and b. L. Flerrom, 1993 Evaluation of the Hilling Maintenant microbial identification Systems. April By M. Eccobico.

M. Kuchania, H. T. Suzrii and P. Hankelan. 1705 Eupopaline Orymacion in Vannam perced coulom man parameter overed by handcrementacion includabilia and a bracomano species. Doc. J. Food Macrologi. 7 237-34.

A Heater and R. J. Merkin of Larresburg-Line in the

- Except H R and J C Sect 1884 Except a Association of
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- magic mid H R Face 1995. Emped determination of 240 vibracing 2004 acquaining for phylogenetic energyes Prov Sett Area Dec 82 (2014-2019) He toff h m it & Tonn J. V. Moderber and L. J.
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- 61,1861-1807 61 Lander, E. and J. D. Oliver 1909 Newborns fatty act and variance changes in the vasied but encoultrable state of Pabric Wollington Agel New Microbial
- 42 Locks, F 3514 Permeted must produce Food bea International 23,239-347
- 43 Marflet, J. E. K. N. Slood and F. A. Cubbo 1947 Effect of certain lastic seld besimels on the spalls flows of a wedsh fresh mest system. The Extract Proceedings From Factoring industries surearch Assoc 549 1 3d

- Obligation

 Never, R. D., M. A. Grant, L. D. Lundecke and H. K.

 Leving 1852 Effects of pit and water activity of

 Microbiological analytics of end of grantine. J. Proof
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- Ricrosymiles "Famoupoister" to be lesoched near year 1894 Marid Feed Compact Stee 22:13
- obsentagings application note: 218-41 Notation Pathons, Avendale Devictor
 - 9 Mikhonye G and D F Neich 1969 Subgrouping of Femidenous separately calleder fatty still composite J Clas Hierotyal 37 5042-2044
 - Hello, F R and F R Velgens 1966 Morroscal extypes in bissessors J Appl Roccettol at LHS
 - iserist stid becteria and the everall flora on development of pathweense becteris to vacuumpotted, scaled smaleton-style simmage 2 Food 55 26 in
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 - Nove H & E 1994 Farmented freely and fined safety
- Food New Internet 27:153-254

 Root N J R and F M Indicate 1992 Farmoreties preservation of plant femile J. App. Backelide Symp. Spo. 77: 2005-251

Part II The riposing of amptic rennet cord by Exemptorscens conseris and Lacobacillus Palesticus. Agr. Elcl. Chem. 14:1462-1465

Front Hast and Sin., Copenhagen

Resimpatohs, England, pp. 289-238, 1333 1392

79 Farish, N. E. 1991. Hermbookspools concerns in elementation processing. Food Technol. 65(4) [18-15].
79 Veryal. N. E., G. D. Saffer, and J. Wirker, 1992.

under low pE and temperature conditions J Food S 56 1833-1335

Pelsons, H. J. 1916. Molecular biology & level of stody of microcognizate. ARR News. 12161 284-287

i Servica, C F S J L W Sampalo, E E Facklan L W Thinman, 1995 Analysis of Elboomal Nos.

Microbial 90-13

Lancach M. R. C. Bakar, J. N. Represents and S. J. Microbial 1979 Polantial application of wicrobial microbial with the control of the cont

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m Reed, C 1969 Prescribt and Descript Industrial Materialsings, 4th Efficient, AVE Publishing Company, For Wesport, Commentaria 41-91, 114-118, 181-101.

- 64. Refrigues U B. H Aguirus, R K Facalas and H D Collins 1995 Especific and unimagentatio molecular typing of Indiaments beamed on polycophisms of 100, nonedate (SSA & App) Nectorial 91-59-514.
- of Leonoberzlas errains by ribocyging Appl Nov Microbiol 33 2480-2484
 - Namesburg, C. H. 1974. Citatur Scalyana for Researchers Lifetive Descring Publications. Delecat, california
- 09 Receivers J. L. and R. Joseph Dieg 1995 Availability of ossettial b-group vitasias to
- Dilles Appl Ser Harmoon) 61:1974-1977

 H Selft 2 1979 Accomption milk products Foods with a
- Newdoon, N. S. 1977 Nobes of Emptobacklism to the
- 2 Samer, N 1990 Identification of betteria by gas
- W 131 NCOT, DGC Browkla, Delenary
- Street, Belamara.

 Nov. N. N., N. Pedermon and J. L. Lazana. LDTB.
 Comparation of palmod Stald get adocting/sometic,
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- SOUTH A L and S A Falance 1893 Gas of exacter Unlikes | Finate J Food Protect, 46 597-1206 SOMETY E S. M E Johnson and A. C. L Mong. 1995
- Social Eggers Herest Selver Inc New Solt, pp 123 122 37: Speck H & 1878 Our indextry today: Internetions samme Serbobselli and man 2 Emiry 4cd 39:328-343
 - Speck, M 1 of 1994 Companding of Nethods for the Kascobial more Insertance of Scots and adjution Assertes Public Exelt Assoc Machington, DC, pp 187 152
 - Stager, C E end J h Sarie 1992 Astonated systems for identifications of microorganisms Clin Microbiol Nov. 5-341-347
 - Microbiol New, 5 302 107 Hidde, M. G. Melin, A. Perseon, S. Abros and S. Stabl 1550 Restriction endounteese patterns and
 - State 2 A 1777 The lattic soil becomes Newscore
 - 102 Sembelenhoop P R., M S Z M Bower and M J. NGSC 1999 A sedime for the detection of bacteria
 - Citizang general dissociation of cooked citred pant products Appl. Hierobook Hocached 22 TE-T7
 - agents of Commission disease. Food Res. 131, 17:249-1 104 Stondown, L. T. Milly, S. Didisewesh, D. Nordow, M. Henou, R. Innibus, J. Guloves and R. Hammels 1991 des liquid chromosographus analysis of collular resiacide for identification of commonspectual missions.

H Rance, D Harley and D Haussin 1994 few liquod chromatography of collists facty acids for Ddemillication of Highphannest J Clas Microbani. 22.3364-132. Twodox, N Z Traiswal, H E Lee, E G Cassens and

Thesistens, E I - 5. 5. Tellowk, A. J Dellow and B E Deviders 1950 Deleted field pr) sinctropherous (DMS) perturns of Sent deputs of herococcal second DMs, a goved betted of strain identification

 Thornaill, R. R., J. O. Burpose and T. Mutrungs.
 1909 FCR for daired details of and persons uncolumn magnetic rowers as resident and phylogenetic samply to of emplified 166 Tibesonal DSA. Appl. Bov. Macrobiol. 11.405-009.

LONDO, F. MIRCO NO.Y. D. WILLE 1993. PRODUCTIONS of RELOCATION FOR THE PRODUCTION OF PERSONNEL AND ADMINISTRATION OF THE PRODUCTION OF

B. Messelms in the Mirrophological potential to the foods, American Polity Health Association Washington to: I maye, A W Callessort: E Westbern and K West Cus Abbrels 3949 Application of gas-liquid chromotograph

Abbertin 3995 Application of gas-logal datasets/proto the routine identification of indeferenting gramopative between the oliminal apocymens J CLS Harmbanl 27 5349-549

112 Vogel R F. 6 Rocker F Hole, N. Rhemann, D. Fatta W Lodwig, D. Pol, K. Kinstern, E. B. Schleifer and W F. Hammer 1999. Identifycation of Laccidatilis from neurologic and description of Encodestillas posterio.

110 Sec. J. S. State and J. S. Tiegle, 1991, Dis. Horn C. H Stude and F M Tindje 1990; can recovery true souls of diverse composition April Try

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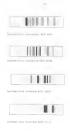




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MALIDATIVES attended the College of Memory in on hefere trembferring to the Colsentity of Favorda as Colseaville. But secreted a Resident of Science 18. Microbiology and cell attends in 1982 and, in 1987, who Children Resident at National Inches and Inness Children Resident at National Inches and Inness

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